

## ABSTRACT

A user interface system is disclosed which is useful for applying decision values to objects defined in terms of attributes, incorporating the concepts of inheritance, adoption, and rebel values. This invention addresses a group of objects that retain the same set of attributes and applies decision values to the selected groups of objects using a value inheritance system analogous to that of an ancestral tree. This invention employs novel methods for constructing a virtual single hierarchical system out of any multiple attributes system, inheriting decision values along family tree lines, and displaying the user's assignment decisions.